AUTHOR INDEX

Page numbers in italics indicate biographic notes about the authors concerned.

Agarwala, V. S., 355, *397*
Alterovitz, S. A., 107, *199*
Atzor, M., 189
Awazu, K., 219, *397*

Ball, A., 125, *199*
Bellow, D. G., 83, *199*
Bhargava, V., 65, *199*
Briscoe, B. J., 47, *199*
Buljan, S.-T., 309, *397*

Centers, P. W., 245, *397*
Cohen, A., 343, *397*
Conte Jr., A. A., 355, *397*

Das, S., 173, *199*
Deckman, D. E., 73, *199*
Dzioch, T. S., 281, *398*

Elsing, R., 189
Enomoto, Y., 133, 147, *200*
Eryu, S., 205, *398*
Evans, P. D., 47, *200*

Farabaugh, E., 73, *200*
Feldman, A., 73, *200*
Fiset, M., 95

Giovanardi, S., 267, *398*
Graham, D. H., 125, *200*

Hahn, G. T., 65, *200*
Hammitt, F. G., 257, *398*
Hibi, Y., 133, *201*

Ives, L. K., 73, *201*
Iwai, Y., 219, 233, *398*

Jacko, M. G., 23, *201*
Jahanmir, S., 73, *201*
Jha, A. K., 163, *201*
Jia, C. D., 343
Jin, H., 323, *398*
Johnson, G. A., 107, *201*

Kennedy, F. E., 295, *398*
Kenny, D., 343, *399*
Kimura, Y., 147, *202*
Kitahara, T., 373, *399*
Knotek, O., 189

Li, S. C., 257, *399*
Longching, C., 205, *399*

Martinella, R., 267, 399
Masounave, J., 95
Miyoshi, K., 107, *202*

Oczoś, K. E., 281, *399*
Okada, K., 147, *202*
Okada, T., 219, 233, *400*
Owens, D. C., 83, *202*

Palombarini, G., 267, *400*
Pantic, D. M., 107
Phan-Thien, N., 323, *400*
Pouch, J. J., 107, *202*

Prasad, S. V., 163, 173, *202*
Prengel, H.-G., 189

Qing, C., 205, *400*

Ramachandran, T. R., 173, *202*
Rhee, S. K., 23, 39, *203*
Rubin, C. A., 65, *203*

Sang, H., 343, *400*
Sheasby, J. S., 343, *400*
Smuga-Otto, I., 83, *203*

Takebayashi, H., 373, *400*
Tanaka, S., 233, *400*
Tanner, R. I., 323, *400*
Tetreault, D. M., 295, *400*
Tsang, P. H. S., 23, 39, *203*
Turenne, S., 95

Upadhyaya, G. S., 163, *203*

Wang, Y. S., 39, *203*
Wayne, S. F., 309, *401*
Wright, R. L., 245, *401*

Yoshioka, T., 373, *401*
Yuine, T., 373, *401*

Zhang, Y. J., 257, *401*
Zum Gahr, K.-H., 1, *204*

© Elsevier Sequoia/Printed in The Netherlands

SUBJECT INDEX

Abrasive wear
influence of asperity deformation conditions on the abrasive wear of γ-irradiated polytetrafluoroethylenes, 47
influence of the composition and coating parameters of PVD Ti–Al–V(C, N) films on abrasive and adhesive wear of coated cemented carbides, 189
Adhesion
adhesion, friction, and wear of plasma-deposited thin silicon nitride films at temperatures to 700 °C, 107
Adhesive wear
influence of the composition and coating parameters of PVD Ti–Al–V(C, N) films on abrasive and adhesive wear of coated cemented carbides, 189
Alloys
friction and wear behavior of ultra-high molecular weight polyethylene on Co–Cr and Ti alloys in dry and lubricated environments, 295
investigation of Au alloy slip ring capsule wear failures, 355
microstructure and wear of cast (Al–Si alloy)–graphite composites, 173
Aluminium
sintered 6061 Al alloy — solid lubricant particle composites: sliding wear and mechanisms of lubrication, 163
wear of Al and Al–Si alloys in single-pass sliding against glass, 343
Asperity deformation
influence of asperity deformation conditions on the abrasive wear of γ-irradiated polytetrafluoroethylenes, 47

Bearings
new method for static load rating of ceramic rolling bearing, 373
study on initiation and propagation angles of subsurface cracks in GCr15 bearing steel under rolling contact, 205
Bubble collapse
statistical investigation of bubble collapse and cavitation erosion effect, 257
Bubble collapse pressure
study of cavitation bubble collapse pressures and erosion part 1: a method for measurement of collapse pressures, 219
study of cavitation bubble collapse pressures and erosion part 2: estimation of erosion from the distribution of bubble collapse pressures, 233
Cavitation erosion
study of cavitation bubble collapse pressures and erosion part 1: a method for measurement of collapse pressures, 219
study of cavitation bubble collapse pressures and erosion part 2: estimation of erosion from the distribution of bubble collapse pressures, 233
statistical investigation of bubble collapse and cavitation erosion effect, 257
Cemented carbides
influence of the composition and coating parameters of PVD Ti–Al–V(C, N) films on abrasive and adhesive wear of coated cemented carbides, 189
Ceramics
new method for static load rating of ceramic rolling bearing, 373
sliding wear of ceramic–ceramic, ceramic–steel and steel–steel pairs in lubricated and unlubricated contact, 1
wear and design of ceramic cutting tool materials, 309
Chromium
study on initiation and propagation angles of subsurface cracks in GCr15 bearing steel under rolling contact, 205
Coatings
influence of the composition and

© Elsevier Sequoia/Printed in The Netherlands

coating parameters of PVD Ti–Al–V(C, N) films on abrasive and adhesive wear of coated cemented carbides, 189
wear of standard and hard-metal-coated couplings with oilfield tubing, 83
Composites
microstructure and wear of cast (Al–Si alloy)–graphite composites, 173
sintered 6061 Al alloy — solid lubricant particle composites: sliding wear and mechanisms of lubrication, 163
wear debris compaction and friction film formation of polymer composites, 23
Contacts
sliding damage of silicon nitride in plane contact, 147
sliding wear of ceramic–ceramic, ceramic–steel and steel–steel pairs in lubricated and unlubricated contact, 1
Crack initiation
study on initiation and propagation angles of subsurface cracks in GCr15 bearing steel under rolling contact, 205
Crack propagation
study on initiation and propagation angles of subsurface cracks in GCr15 bearing steel under rolling contact, 205
Cutting tools
wear and design of ceramic cutting tool materials, 309

Design
wear and design of ceramic cutting tool materials, 309
Diamond
tribological characteristics of synthesized diamond films on silicon carbide, 73
Disc brakes
friction-induced noise and vibration of disc brakes, 39

Erosion
effect of sand concentration on the erosion of materials by a slurry jet, 95
particle erosion of candidate materials for hydraulic valves, 125
statistical investigation of bubble collapse and cavitation erosion effect, 257
study of cavitation bubble collapse pressures and erosion part 1: a method for measurement of collapse pressures, 219
study of cavitation bubble collapse pressures and erosion part 2: estimation of erosion from the distribution of bubble collapse pressures, 233

Films
influence of the composition and coating parameters of PVD Ti–Al–V(C, N) films on abrasive and adhesive wear of coated cemented carbides, 189
tribological characteristics of synthesized diamond films on silicon carbide, 73
Flow
on the hydrodynamic braking flow of a viscoelastic fluid, 323
Friction
adhesion, friction, and wear of plasma-deposited thin silicon nitride films at temperatures to 700 °C, 107
friction and wear behavior of ultra-high molecular weight polyethylene on Co–Cr and Ti alloys in dry and lubricated environments, 295
friction-induced noise and vibration of disc brakes, 39
wear debris compaction and friction film formation of polymer composites, 23
Friction films
wear debris compaction and friction film formation of polymer composites, 23

γ-irradiation
influence of asperity deformation conditions on the abrasive wear of γ-irradiated polytetrafluoroethylenes, 47

Glass
wear of Al and Al–Si alloys in single-pass sliding against glass, 343
Gold
investigation of Au alloy slip ring capsule wear failures, 355

Graphite
microstructure and wear of cast (Al–Si alloy)–graphite composites, 173
Grinding
internal spherical surface grinding, 281

Hydraulic valves
particle erosion of candidate materials for hydraulic valves, 125
Hydrodynamic braking flow
on the hydrodynamic braking flow of a viscoelastic fluid, 323

Lubrication
friction and wear behavior of ultra-high molecular weight polyethylene on Co–Cr and Ti alloys in dry and lubricated environments, 295
sliding wear of ceramic–ceramic, ceramic–steel and steel–steel pairs in lubricated and unlubricated contact, 1

Metals
correlation of portable wear metal analyzer (PWMA-2) and baird A/E35U-3 oil analysis data, 245
Microstructural changes
rolling contact deformation and microstructural changes in high strength bearing steel, 65
Microstructure
microstructure and wear of cast (Al–Si alloy)–graphite composites, 173

Noise
friction-induced noise and vibration of disc brakes, 39

Oilfield tubing
wear of standard and hard-metal-coated couplings with oil field tubing, 83
Oils
correlation of portable wear metal analyzer (PWMA-2) and baird A/E35U-3 oil analysis data, 245

Particle erosion
particle erosion of candidate materials for hydraulic valves, 125
Particles
sintered 6061 Al alloy — solid lubricant particle composites: sliding wear and mechanisms of lubrication, 163
Physical vapour deposition
influence of the composition and coating parameters of PVD Ti–Al–V(C, N) films on abrasive and adhesive wear of coated cemented carbides, 189
Plasma deposition
adhesion, friction, and wear of plasma-deposited thin silicon nitride films at temperatures to 700 °C, 107
Polyethylene
friction and wear behavior of ultra-high molecular weight polyethylene on Co–Cr and Ti alloys in dry and lubricated environments, 295
wear of ultrahigh molecular weight polyethylene sliding against surface-treated Ti_6Al_4V, AISI 316 stainless steel and vitallium, 267
Polymers
wear debris compaction and friction film formation of polymer composites, 23
Polytetrafluoroethylenes
influence of asperity deformation conditions on the abrasive wear of γ-irradiated polytetrafluoroethylenes, 47

Rolling bearings
new method for static load rating of ceramic rolling bearing, 373
Rolling contact
rolling contact deformation and microstructural changes in high strength bearing steel, 65
Rolling contacts
study on initiation and propagation angles of subsurface cracks in GCr15 bearing steel under rolling contact, 205

Sand
effect of sand concentration on the erosion of materials by a slurry jet, 95
Silicon
wear of Al and Al–Si alloys in single-pass sliding against glass, 343

Silicon carbide
tribological characteristics of synthesized diamond films on silicon carbide, 73
Silicon nitride
adhesion, friction, and wear of plasma-deposited thin silicon nitride films at temperatures to 700 °C, 107
sliding damage of silicon nitride in plane contact, 147
tribochemical wear of silicon nitride in water, *n*-alcohols and their mixtures, 133
Sliding
sliding damage of silicon nitride in plane contact, 147
wear of Al and Al–Si alloys in single-pass sliding against glass, 343
wear of ultrahigh molecular weight polyethylene sliding against surface-treated Ti_6Al_4V, AISI 316 stainless steel and vitallium, 267
Sliding damage
sliding damage of silicon nitride in plane contact, 147
Sliding wear
sintered 6061 Al alloy — solid lubricant particle composites: sliding wear and mechanisms of lubrication, 163
sliding wear of ceramic–ceramic, ceramic–steel and steel–steel pairs in lubricated and unlubricated contact, 1
Slip
investigation of Au alloy slip ring capsule wear failures, 355
Slurry
effect of sand concentration on the erosion of materials by a slurry jet, 95
Solid lubricants
sintered 6061 Al alloy — solid lubricant particle composites: sliding wear and mechanisms of lubrication, 163
Steels
rolling contact deformation and microstructural changes in high strength bearing steel, 65
sliding wear of ceramic–ceramic, ceramic–steel and steel–steel pairs in lubricated and unlubricated contact, 1
study on initiation and propagation angles of subsurface cracks in GCr15 bearing steel under rolling contact, 205
wear of ultrahigh molecular weight polyethylene sliding against surface-treated Ti_6Al_4V, AISI 316 stainless steel and vitallium, 267
Surface grinding
internal spherical surface grinding, 281
Surfaces
internal spherical surface grinding, 281
wear of ultrahigh molecular weight polyethylene sliding against surface-treated Ti_6Al_4V, AISI 316 stainless steel and vitallium, 267
Synthetic diamond
tribological characteristics of synthesized diamond films on silicon carbide, 73

Thin films
adhesion, friction, and wear of plasma-deposited thin silicon nitride films at temperatures to 700 °C, 107
Titanium
friction and wear behavior of ultrahigh molecular weight polyethylene on Co–Cr and Ti alloys in dry and lubricated environments, 295
Tools
wear and design of ceramic cutting tool materials, 309
Tribochemistry
tribochemical wear of silicon nitride in water, *n*-alcohols and their mixtures, 133
Tribology
tribological characteristics of synthesized diamond films on silicon carbide, 73

Vibration
friction-induced noise and vibration of disc brakes, 39
Viscoelastic fluids
on the hydrodynamic braking flow of a viscoelastic fluid, 323
Vitallium
wear of ultrahigh molecular weight polyethylene sliding against surface-treated Ti_6Al_4V, AISI 316 stainless steel and vitallium, 267

Wear
adhesion, friction, and wear of plasma-deposited thin silicon nitride films at temperatures to 700 °C, 107
correlation of portable wear metal analyzer (PWMA-2) and baird A/E35U-3 oil analysis data, 245
friction and wear behavior of ultrahigh molecular weight polyethylene on Co–Cr and Ti alloys in dry and lubricated environments, 295
influence of asperity deformation conditions on the abrasive wear of γ-irradiated polytetrafluoroethylenes, 47
investigation of Au alloy slip ring capsule wear failures, 355
microstructure and wear of cast (Al–Si alloy)–graphite composites, 173
sintered 6061 aluminium alloy — solid lubricant particle composites: sliding wear and mechanisms of lubrication, 163
sliding wear of ceramic–ceramic, ceramic–steel and steel–steel pairs in lubricated and unlubricated contact, 1
tribochemical wear of silicon nitride in water, *n*-alcohols and their mixtures, 133
wear and design of ceramic cutting tool materials, 309
wear debris compaction and friction film formation of polymer composites, 23
wear of Al and Al–Si alloys in single-pass sliding against glass, 343
wear of standard and hard-metal-coated couplings with oilfield tubing, 83
wear of ultrahigh molecular weight polyethylene sliding against surface-treated Ti_6Al_4V, AISI 316 stainless steel and vitallium, 267
Wear debris
wear debris compaction and friction film formation of polymer composites, 23
Wear failure
investigation of Au alloy slip ring capsule wear failures, 355